

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,015	07/31/2003	Tetsuya Kojima	Q76775	9525
23373	7590 09/10/2004		EXAMINER	
SUGHRUE MION, PLLC			PHAM, HAI CHI	
2100 PENNSYLVANIA AVENUE, N.W.			ART UNIT	PAPER NUMBER
SUITE 800 WASHINGTO	ON, DC 20037	2861		
			DATE MAILED: 09/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	10/631,015	KOJIMA, TETSUYA				
Office Action Summary	Examiner	Art Unit				
	Hai C Pham	2861				
The MAILING DATE of this communication apportant appropriate for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-3</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal Pa	ite atent Application (PTO-152)				
Paper No(s)/Mail Date <u>03/08/04</u> . 6) Other:						

#### **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chan (U.S. 5,107,332) in view of Wan et al. (U.S. 5,452,112).

Chan discloses a color printer and a method for providing shading correction by generating discrete test pattern such as a number of smaller 4x6 color gamut, using a densitometer for measuring the density of the generated small scale test pattern whose results are compared to the values stored in the initial LUT included in the computer located in the color printer, the initial LUT storing the full scale of the color gamut, and updating the look up table (col. 4, line 26 to col. 5, line 31).

Chan fails to explicitly disclose the initial LUT storing the full scale color gamut being generated before the color printer being shipped out of the factory.

However, it is well known in the art that most color printer includes a look up table for storing the standard parameters concerning the gray scale or performance of

the color printer against which periodic calibration is carried, the initial look up being set up at the factory as evidenced by Wan et al. at col. 1, lines 36-44.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to incorporate the initial LUT of Chan as factory standard since Wan et al. teaches this to be well known in the art to set the standard parameters of the printing system for a satisfactory performance against which periodic calibration of the system is carried.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chan in view of Wan et al., as applied to claim 1 above, and further in view of Sasanuma et al. (U.S. 5,859,933).

Chan, as modified by Wan et al., discloses all the basic limitations of the claimed invention except for the shading correction of all gradation densities being performed by interpolating each intermediate recording density between one and another.

Sasanuma et al. discloses an image forming apparatus and method wherein the calculation of the gamma-LUT in the shading correction calibration for intermediate data of the full scale gradation pattern is generated by data interpolation so as to determine correspondences between all the density signal levels (col. 7, lines 62-67).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to incorporate the data interpolation of the intermediate values within the full scale gradation level in the modified device of Chan as taught by Sasanuma et al. The motivation for doing so would have been to provide a simpler

Application/Control Number: 10/631,015

Page 4

Art Unit: 2861

calibration operation since only minor color correction would be needed during the periodic calibration as suggested by both Chan and Sasanuma et al.

#### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HAI PHAM PRIMARY EXAMINER

Harzlithan

September 4, 2004